



COMMONWEALTH of VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 012223  
CERTIFICATION DATE: November 5, 2013  
DATE RECERTIFICATION DUE: May 4, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

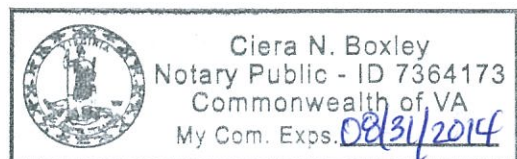
Melissa Kennedy  
Program Manager, Calibration & Training

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 14<sup>th</sup> day of November, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014  
TLN



Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 11/8/2013

HMS

TLN

Instrument Serial Number: 012223 As of 08-Nov-13

Maintenance Date	Certification Date	Technician Initials	Remarks
05-Nov-13	05-Nov-13	HMS (18910)	REPLACED PRINTER RIBBON, FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
22-May-13	22-May-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
05-Dec-12	05-Dec-12	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
14-Jun-12	14-Jun-12	HMS (18910)	CERTIFIED
31-May-12	31-May-12	TLN (25387)	CALIBRATED, CERTIFIED AND ACCEPTED.

**INTOX EC/IR II**  
**Quality Assurance Worksheet**

*AMS*  
*msc*

Instrument Serial Number **012223** Worksheet Start Date **11/5/2013**  
Location **Fairfax County Mount Vernon**  
Address **2511 Parkers Lane, Alexandria, VA 22306**  
DFS Technician **Heather Stanton** License No. **18910**

☐ Laboratory

☒ On-Site

**Site Specifications**

Yes

No

**1 Secured Environment:**

Location must not be accessible to the general public.

☒

☐

**2 Environment free from contaminants**

☒

☐

**3 Dedicated telephone line:**

The phone line should be used solely by the instrument.

☒

☐

**4 Adequate Ventilation:**

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒

☐

**5 Stable temperature controls:**

The instrument should not be exposed to direct sources of temperature variation.

☒

☐

**6 115VAC power source:**

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒

☐

**7 Room Condition:**

The site should be free of excessive moisture, heat and dust.

☒

☐

Old serial no.  
E-Seek  
Keyboard  
Printer  
UPS

New serial no.

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:

75  
75  
2 pads

Maintenance (if any)

Replaced printer ribbon. Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 012223

Certification Date 11/5/2013

Instrument Barometer (mm HG) 770

Reference Barometer (mm HG) 775

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.251
0.250	0.253	0.245	0.260	Sample 2	0.251
Precision		sample min	sample max	Sample 3	0.250
0.001		0.250	0.251		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.151
0.150	0.152	0.147	0.156	Sample 2	0.151
Precision		sample min	sample max	Sample 3	0.151
0		0.151	0.151		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.081	0.078	0.084	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG320502-12

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.101
0.100	0.101	0.097	0.104	Sample 2	0.101
Precision		sample min	sample max	Sample 3	0.101
0		0.101	0.101		

DFS Technician

*Heath A. Stath*

Date

11/8/13

Issuing Analyst

*Melissa Kennedy*

Date

11/12/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

TLN

DFS Document 250-F113

Revision 6

Page 2 of 2





COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

Handwritten initials: HWS and WLL

NAME OF ACCUSED	NAME OF COURT
INSTRUMENT, TEST,	DFS

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY		AGENCY
STANTON, HEATHER, M		DFS Central Lab
DFS LICENSE NUMBER	LICENSE EXPIRES	DATE TEST CONDUCTED
18910	10/01/2014	11/05/2013
TEST EQUIPMENT NUMBER		
012223		

RESULTS: TIME SAMPLE TAKEN 10:08 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 07 Nov 2013 at 15:39

*Handwritten initials/signature*

## Test Results

**Instrument Serial Number 012223**

**Test # 000698**      **Subject Test**

**Test Location 1**    Department of  
                                 **Test Date**    05 Nov 2013

**Test Location 2**    Forensic Science  
                                 **Test Time**    10:02  
                                 Remote/Local    Local

**Test Location 3**  
                                 **System Check**    Passed

**Operator's Last Name**    STANTON  
                                 **Agency**    DFS Central Lab

**Operator's First Name**    HEATHER

**Operator's Middle Initial**    M  
                                 **License Number**    18910

**Card Serial Number**    118910

**Effective Date**    10/01/2012

**Expiration Date**    10/01/2014

**Subject's Last Name**    INSTRUMENT

**Subject's First Name**    TEST

**Subject's Middle Initial**

**Subject's Date of Birth**    00/00/0000

**Subject's Sex**    Male

**Driver's License Number**

**Driver's License Expiration**    00/00/0000

**Driver's License State**

**Court Name**    DFS

**End Date**    05 Nov 2013      **End Time**    10:09

**Result Time**    10:08

**Result Date**    05 Nov 2013      **Result**    0.00

**Data Type**    DIAG

**Sample Value**    Pass

**Sample Time**    10:02

**Data Type**    BLK

**Sample Value**    0.000

**Sample Time**    10:03

**Data Type**    CHK

**Sample Value**    0.103

**Sample Time**    10:04

**Data Type**    BLK

**Sample Value**    0.000

**Sample Time**    10:05

**Data Type**    SUBJ

**Sample Value**    0.000

**Sample Time**    10:06

**Data Type**    BLK

**Sample Value**    0.000

**Sample Time**    10:07

**Data Type**    SUBJ

**Sample Value**    0.000

**Sample Time**    10:08

**Data Type**    BLK

**Sample Value**    0.000

**Sample Time**    10:09

**Standard Type**    Dry Gas Std

**Standard Value**    0.101

**Standard Lot Number**    AG230501-31

**Standard Expiration Date**    10/31/2014

**Tank Pressure**    360

**Barometric Pressure**    770 mmHg

**Blow Sample Number**    1      **Blow Duration**    3.47 sec

**Blow Volume**    1755 cc      **End-of-Blow Time**    10:06

**Blow Sample Number**    2      **Blow Duration**    3.63 sec

**Blow Volume**    1902 cc      **End-of-Blow Time**    10:08

**Tamper Evident Stamp**    881edaf7

**Test Status Code**    0

**Test Status**    Success

Handwritten initials: HNS and WSK

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 012223      Test Number: 699

Test Date: 11/05/2013      Test Time: 10:11 EST

Dry Gas Target: 0.101

Lot Number: AG230501-31      Exp Date: 10/31/2014

Tank Pressure: 355 psi      Barometric Pressure: 769 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:11
CHK	0.103	10:12
BLK	0.000	10:14
CHK	0.103	10:15
BLK	0.000	10:16
CHK	0.103	10:17

Test Status: *Success*

Calibration CRC: 9328D43B

Handwritten initials: LMS and MSK

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 012223      Test Number: 700

Test Date: 11/05/2013      Test Time: 10:20 EST

Dry Gas Target: 0.304

Lot Number: AG322702-01      Exp Date: 08/15/2015

Tank Pressure: 345 psi      Barometric Pressure: 770 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:21
CHK	0.307	10:22
BLK	0.000	10:24
CHK	0.307	10:24
BLK	0.000	10:26
CHK	0.306	10:27

Test Status: *Success*

Calibration CRC: 9328D43B



AMS

NSA

**Intox EC/IR-II: Software Version**

*Department of Forensic Science*

Serial Number: 012223

System Date: 11/05/2013

System Time: 10:51 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

AMS  
NHL

**Intox EC/IR-II: Calibration**

*Department of Forensic Science*

Serial Number: 012223      Test Number: 701

Test Date: 11/05/2013      Test Time: 10:53 EST

Dry Gas Target: 0.101

Lot Number: 0651210013-06      Exp Date: 04/01/2014

Tank Pressure: 615 psi      Barometric Pressure: 769 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:54
CAL	0.101	10:55

Test Status: *Success*

Calibration CRC: EB072453

HMS

WHL

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 012223      Test Number: 702

Test Date: 11/05/2013      Test Time: 10:57 EST

Technician Initials: HMS

Dry Gas Target: 0.253

Lot Number: 2961225012-08      Exp Date: 11/01/2014

Tank Pressure: 433 psi      Barometric Pressure: 769 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:57
BLK	0.000	10:58
CHK	0.251	10:59
BLK	0.000	11:00
CHK	0.251	11:01
BLK	0.000	11:03
CHK	0.250	11:03
BLK	0.000	11:05

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS  
WAL

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 012223      Test Number: 703  
Test Date: 11/05/2013      Test Time: 11:06 EST

Technician Initials: HMS

Dry Gas Target: 0.152

Lot Number: 29512150I2-02      Exp Date: 11/01/2014

Tank Pressure: 1012 psi      Barometric Pressure: 769 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:07
BLK	0.000	11:07
CHK	0.151	11:08
BLK	0.000	11:09
CHK	0.151	11:10
BLK	0.000	11:11
CHK	0.151	11:12
BLK	0.000	11:13

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS

MSL

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 012223      Test Number: 704

Test Date: 11/05/2013      Test Time: 11:15 EST

Technician Initials: HMS

Dry Gas Target: 0.081

Lot Number: 0771308012-04      Exp Date: 05/01/2015

Tank Pressure: 992 psi      Barometric Pressure: 769 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:15
BLK	0.000	11:16
CHK	0.080	11:17
BLK	0.000	11:18
CHK	0.080	11:19
BLK	0.000	11:20
CHK	0.080	11:21
BLK	0.000	11:22

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS  
NHL

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 012223      Test Number: 705  
Test Date: 11/05/2013      Test Time: 11:24 EST

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 0651202011-03      Exp Date: 04/01/2014

Tank Pressure: 95 psi      Barometric Pressure: 769 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:24
BLK	0.000	11:25
CHK	0.019	11:26
BLK	0.000	11:27
CHK	0.019	11:28
BLK	0.000	11:29
CHK	0.019	11:30
BLK	0.000	11:31

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

AMS

WMA

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 012223      Test Number: 706

Test Date: 11/05/2013      Test Time: 11:33 EST

Dry Gas Target: 0.304

Lot Number: AG322702-01      Exp Date: 08/15/2015

Tank Pressure: 335 psi      Barometric Pressure: 769 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:34
CHK	0.306	11:35
BLK	0.000	11:37
CHK	0.305	11:37
BLK	0.000	11:39
CHK	0.305	11:40

Test Status: *Success*

Calibration CRC: EB072453



AMS  
NML

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 012223      Test Number: 707

Test Date: 11/05/2013      Test Time: 11:42 EST

Dry Gas Target: 0.101

Lot Number: AG320502-12      Exp Date: 07/24/2015

Tank Pressure: 1115 psi      Barometric Pressure: 769 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:43
CHK	0.101	11:44
BLK	0.000	11:46
CHK	0.101	11:46
BLK	0.000	11:48
CHK	0.101	11:48

Test Status: *Success*

Calibration CRC: EB072453




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

Handwritten initials: HHS and NOK

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>STANTON, HEATHER, M</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>18910</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>11/05/2013</b>
TEST EQUIPMENT NUMBER <b>012223</b>		

RESULTS: TIME SAMPLE TAKEN 11:56 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_.

BREATH TEST OPERATOR
----------------------

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 07 Nov 2013 at 15:45

*Handwritten initials/signature*

## Test Results

**Instrument Serial Number 012223**

**Test # 000708**      **Subject Test**

**Test Location 1** Department of  
Test Date 05 Nov 2013

**Test Location 2** Forensic Science  
Test Time 11:50  
Remote/Local Local

**Test Location 3**  
System Check Passed

**Operator's Last Name** STANTON  
Agency DFS Central Lab

**Operator's First Name** HEATHER

**Operator's Middle Initial** M  
License Number 18910

**Card Serial Number** 118910

**Effective Date** 10/01/2012

**Expiration Date** 10/01/2014

**Subject's Last Name** INSTRUMENT

**Subject's First Name** TEST

**Subject's Middle Initial**

**Subject's Date of Birth** 00/00/0000

**Subject's Sex** Male

**Driver's License Number**

**Driver's License Expiration** 00/00/0000

**Driver's License State**

**Court Name** DFS

**End Date** 05 Nov 2013      **End Time** 11:57

**Result Time** 11:56

**Result Date** 05 Nov 2013      **Result** 0.00

**Data Type** DIAG

**Sample Value** Pass

**Sample Time** 11:50

**Data Type** BLK

**Sample Value** 0.000

**Sample Time** 11:51

**Data Type** CHK

**Sample Value** 0.101

**Sample Time** 11:51

**Data Type** BLK

**Sample Value** 0.000

**Sample Time** 11:53

**Data Type** SUBJ

**Sample Value** 0.000

**Sample Time** 11:53

**Data Type** BLK

**Sample Value** 0.000

**Sample Time** 11:54

**Data Type** SUBJ

**Sample Value** 0.000

**Sample Time** 11:56

**Data Type** BLK

**Sample Value** 0.000

**Sample Time** 11:57

**Standard Type** Dry Gas Std

**Standard Value** 0.101

**Standard Lot Number** AG320502-12

**Standard Expiration Date** 07/24/2015

**Tank Pressure** 1115

**Barometric Pressure** 768 mmHg

**Blow Sample Number** 1      **Blow Duration** 3.31 sec

**Blow Volume** 1733 cc      **End-of-Blow Time** 11:53

**Blow Sample Number** 2      **Blow Duration** 3.35 sec

**Blow Volume** 1734 cc      **End-of-Blow Time** 11:56

**Tamper Evident Stamp** 548d265f

**Test Status Code** 0

**Test Status** Success